DEPUTY OIL & GAS INSPECTION

AUG 0 9 12929

Jicarilla Apache Tribe Environmental Protection Office P.O. Box 507 Dulce, New Mexico 87528



OIL CON. DIV. DIST. 3

Pit Remediation and Closure Report

		11.0 A	Talanta	/EOE	225 6200	., . , ., .,	
Operator:	Taurus Explorati			(505)	325-6800		
Address:	2198 Bloomfield						
Facility or Well		Jicarilla 94-5		O		Rio Arri	bo.
Location:		 	23, T 27 N, R 3 W				oa
Pit Type:	Separator:	Dehydrator:	Other: X - Aband	onea :	Separator i	-IT	
Land Type:	Range				 		
		115. 45.4		حامد حام	42.6		·
Pit Location:	Pit dimensions:	length: 45 ft	width: 50 ft	depth:	13π	-	
(Attach Diagrai	•	111 d. V	-4b				
<u></u> .	Reference:	wellhead: X	other:			-	
	ge from reference:		D	.	81 41-		
Directi	on from reference:	10	Degrees	East	North		
			v	\Atast	of Courth	~	
			X	West	South	<u>x</u>	
Dooth To Con	ndvater:		Less than 50 feet	-	(20 points)		-
Depth To Grou (Vertical distar			50 feet to 99 feet		(20 points) (10 points)		
		,	Greater than 100 feet		(10 points) (0 points)		0
contaminants t		•	Siealei thail 100 lect		(o points)		
high water elev	rations of						
groundwater)							
Distance to an	Ephemeral Stream):	Less than 100 feet		(10 points)		
	dry wash greater t		Greater than 100 feet		(0 points)		0
ten feet in widt	•				(= + =)		
COLLIDOR III WIGI	·· <i>,</i>						
Distance to Ne	arest Lake, Playa,	or Watering	Less than 100 feet		(10 points)		
	adient lakes, playa	_	Greater Than 100 feet		(0 points)		0
` `	dlife watering pond				(- j /		
		· · <i>y</i>					
Wellhead Prot	ection Area:		Yes		(20 points)	•	
(Less than 200	feet from a private)	No		(0 points)		0
`	r source, or less th				•		
	all other water sou						
		,					
Distance To S	urface Water:		Less than 100 feet		(20 points)	•	
	tance to perennial		100 feet to 1000 feet	<u>:</u>	(10 points))	
•	ivers, streams, cre	eks, G	reater than 1000 feet		(0 points)		0
	s and ditches.)	•				****	
9	,		RANKING SCORE	TOTAL	L SCORE):		0

Jicarilla Apache Tribe **Environmental Protection Office** P.O. Box 507

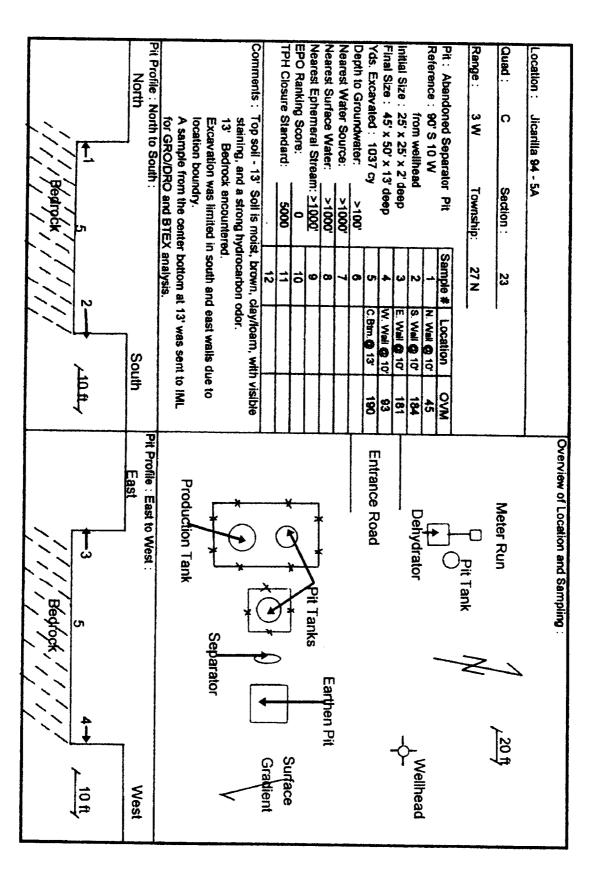
Dulce, New Mexico 87528

Pit Remediation and Closure Report

(Check all appropriate Landfarmed: X Insitu Bioremediation: sections) Other: Remediation Location: On-site: X Off-site: (I.e. landfarmed on site, name and location of off site location) General Description of Remedial Action: Soil was excavated and landfarmed on location of off site location) Groundwater Encountered: No: X Yes: Depth: Final Pit Sample location: Pit bottom @ 13 feet below surface. Pit walls were analyzed for Headspace (see attachment). (If multiple samples, attach sample results and diagram of sample Sample date: 7/24/98 Sample time: Sample Results: Soil: Water: Benzene (ppm) ND Benzene (ppb) Total BTEX (ppm) ND Toluene (ppb) Field Headspace (ppm) 190 Ethylbenzene (ppb) TPH (ppm) 216 Total Xylenes (ppb) Groundwater Sample: Yes: No: X I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLET THE BEST OF MY KNOWLEDGE AND BELIEF DATE: 8/25/98 Frank McDonald	
Remediation Method: (Check all appropriate	
sections) Other: Remediation Location: On-site: X Off-site: (I.e. landfarmed on site, name and location of off site location) General Description of Remedial Action: Soil was excavated and landfarmed on loc Groundwater Encountered: No: X Yes: Depth: Final Pit Sample location: Pit bottom @ 13 feet below surface. Pit Closure Sampling: walls were analyzed for Headspace (see attachment). (If multiple samples, attach sample results and diagram of sample locations and depths.) Sample date: Sample date: Soil: Benzene (ppm) Total BTEX (ppm) ND Benzene (ppb) Total BTEX (ppm) Total STEX	1037
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THE BEST OF MY KNOWLEDGE AND BELIEF DATE: 8/25/98 Frank McDonald	E TO
DATE: 8/25/98 Frank McDonald	
1 1	
1 1	
AND TITLE For Division Management	
SIGNATURE: Sand 1/5/ AND TITLE: Env. Division Manage	ger
AFTER REVIEW OF THE PIT CLOSURE INFORMATION PIT CLOSURE IS APPR	
IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINAN	OVED
THE THE TOTAL TO THE OWN WILL THE	
APPROVED: Yes: X No: (Reason)	
SIGNED: Lew Me DATE: 9-2-	ICE

Client: Taurus Exploration U.S.A. inc.

Date Started: July 24, 1998 Date Completed: July 24, 1998



Environmental Specialist: VC

Cimarron Oilfield Services

Page 1 of

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 94-5A Sep. Pit

Report Date:

08/05/98

Sample ID:

C. Bottom @ 13'

Date Sampled:

Lab ID:

0398G04195

Date Received:

07/24/98 07/27/98

Sample Matrix:

Soil

Date Analyzed:

07/29/98

Condition:

Cool/Intact

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	178	5.0 mg/kg
Total Volatile Petroleum Hydrocarbons	205	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By

2506 W. Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID: Sample ID: Lab ID: Jicarilla 94-5A Sep. Pit

C. Bottom @ 13^t 0398G04195

Sample Matrix:

Soil

Condition: Cool/Intact

Report Date:

08/05/98

Date Sampled: Date Received:

07/24/98 07/27/98

Date Analyzed: 07/29/98

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Diesel-Range Petroleum Hydrocarbons

38

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By

VOLATILE AROMATIC HYDROCARBONS

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 94-5A Sep. Pit

Report Date: 08/05/98

Sample ID: Lab ID:

C. Bottom @ 13'

Date Sampled: 07/24/98

Sample Matrix:

0398G04195

Time Sampled: 1:00

Date Received: 07/27/98

Condition:

Soil

Date Extracted: NA

Cool/Intact

Date Analyzed: 07/29/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	50.0
Ethylbenzene	ND	50.0
m,p-Xylenes	ND	50.0
o-Xylene	ND	50.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Bromofluorobenzene

N/A

70%-130%

Reference:

Method 5030, Purge and Trap; Method 8021B, Aromatic Volatile Organics; Test

Methods for Evaluating Solid Wastes, SW-846, United States Environmental

Protection Agency, Revision 2, December, 1996.

Comments:

N/A=Data not available.

Analyst

Review



CHAIN OF CUSTODY RECORD

1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	Helinquisned by: (Signature)	nemquisies by (oignature)	emiquisined by: (Signature)	All and the Age									13'	Jic 78- 5A C. Dice !	Sample No./	Sampler: (Signature)*	Taures Explicat	
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JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT

Operator: Taurus Exploration USA Inc.	Telephone: (505) 325 - 6800					
Address: 2198 Bloomfield Hwy, Farming	ton N.M. 87401					
Facility or Well Name: <u>Jicarilla 94-5A</u>						
Location: Unit or Qtr/Qtr Sec_C_Sec_	23 T 27 N R 3 W County Rio Arriba					
Land Type: Range						
Date Remediation Started: July 24,1998	Date Completed: November 12, 1998					
Remediation Method: Landfarmed X	Approx. cubic yards1037					
Composted	_					
Other						
Depth to Groundwater: (pts)0	Final Closure Sampling:					
Distance to an Ephemeral Stream (pts)0	Sampling Date: <u>11/12/98</u> Time: <u>0930</u>					
Distance to Nearest Lake, Playa, or Watering Pond (pts) 0	Sample Results:					
Wellhead Protection Area (pts) 0	Field Headspace (ppm) <u>12.7</u>					
Distance to Surface Water (pts)0	TPH (ppm) <10 Method 8015 Other:					
RANKING SCORE (TOTAL POINTS): 0						
M wastell	AMEFRANK MCDONALD					
SIGNATURE Soul My 2 mily	AND TITLE ENV. DIVISION MANAGER					
AFTER REVIEW OF THE SOIL REMEDIATION INFOR APPROVED IN ACCORDANCE TO THE JICARILLA A APPROVED: YESNO (REASON)						
SIGNED: LE CM and DA	TE: 12-28-98					

		Overview of Landfarm and Sampling:	ling :
Location: Jicarilla 94-5A		-7	
Quad: C Section:	23		1 2 3
Township: 27 N Range:	3 W		ω +
Pit: Separator	Sample # Location OVM		4 6
	Comp 1	1	
Reference 80' N 20 E	2 Comp 2 3.9		4
	Comp 3		ω
Size: 200' x 150' x 1' deep	4 Comp 4 5.1	net er run	ν.
	5 Comp 5 2.3	,	
Yds: 1037	0	pit tank	
	8		
n Doint Compositor	20		
	11		
	12	מפוישני מניטו	-
		Ent rance	Well head
1			
Comments : Soil is moist, brown, A sample from com	Soil is moist, brown, clay/loam with no visible staining or detectable hydrocarbon odor. A sample from composite # 6 was sent to IML for GRO/DRO analysis.	or detectable hydrocarbon odor. O/DRO analysis.	
Environmental Specialist : JE			

GASOLINE RANGE ORGANICS - GRO

TAURUS EXPLORATION U.S.A., INC.

Project ID:

Jicarilla 94-5A

Sample ID:

Condition:

Land Farm Comp. #6

Lab ID:

0398G06700

Cool/Intact

Sample Matrix:

Soil

Report Date:

11/23/98

Date Sampled:

11/12/98

Date Received:

11/16/98

Date Analyzed:

11/18/98

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	<5.0	5.0 mg/Kg
Total Purgeable Hydrocabons	<5.0	5.0 mg/Kg

QUALITY CONTROL - SURROGATE RECOVERY	% RECOVERY	QC LIMITS
Bromofluorobenzene	79%	70-130

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:

DIESEL RANGE ORGANICS - DRO

TAURUS EXPLORATION U.S.A., INC.

Project ID:

Jicarilla 94-5A

Report Date:

11/23/98

Sample ID:

Land Farm Comp. #6

Date Sampled:

11/12/98

Lab ID:

0398G06700

Date Received:

11/16/98

Sample Matrix:

Soil

Date Analyzed:

11/18/98

Condition:

Cool/Intact

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	<5.0	5.0 mg/Kg
Total Extractable Hydrocarbons	<5.0	5.0 mg/Kg

QUALITY CONTROL - SURROGATE RECOVERY	% RECOVERY	QC LIMITS
o-Terphenyl	73%	70-130

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:



CHAIN OF CUSTODY RECORD

1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	iomquanos of (oignature)	Action (1) Action (1)	Relinquished by: (Signature)	elinquished by:(Signature)					Comp # Co		Sample No./	Sampler: (Signafure)		Client/Project Name
1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	2		(h)	Jet .	7					11-12-98 0930	Date Time		xploration	
5 XIO		11/	//-							(3	Lab Number	Chain of Custody Tape No.	3.0	Project Location
UTITATITI LADOFATOFIE 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Date	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	11-15-98 (11-16)	Date Time						30,1	Matrix	dy Tape No.	94-5A	Location
JS, INC. 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	Received by laboratory: (Signature)	(Signature)	Brooked by (Strong)	Received by: (Signature)							No. of Contain			
11183 State Hwy. 30 College Station, TX 77845	ignature)		acconc					71					ANALYSES / PARAMETERS	
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